



IS4

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**POWER AMPLIFIER PENTODE**

MINIATURE TYPE

| | | |
|------------------------|--------|------------------------|
| Filament | Coated | |
| Voltage | 1.4 | d-c volts |
| Current | 0.1 | amp. |
| Maximum Overall Length | | 2-1/8" |
| Maximum Seated Height | | 1-7/8" |
| Maximum Diameter | | 3/4" |
| Bulb | | T-5-1/2 |
| Base ^Δ | | Miniature Button 7-Pin |
| Pin 1 - Filament - | | Pin 5 - Filament - |
| Pin 2 - Plate | | Pin 6 - Plate |
| Pin 3 - Grid | | Pin 7 - Filament + |
| Pin 4 - Screen | | |
| Mounting Position | | Any |



BOTTOM VIEW (7AV)

AMPLIFIER

| | | | |
|---|------|------|-----------------|
| Plate Voltage | | | 90 max. volts |
| Screen Voltage | | | 67.5 max. volts |
| Total Max.-Signal Cathode Current | | | 11 max. ma. |
| Total Zero-Signal Cathode Current | | | 9 max. ma. |
| <i>Typical Operation and Characteristics - Class A₁ Amplifier:</i> | | | |
| Filament | 1.4 | 1.4 | 1.4 d-c volts |
| Plate | 45 | 67.5 | 90 volts |
| Screen | 45 | 67.5 | 67.5 volts |
| Grid | -4.5 | -7 | -7 volts |
| Peak A-F Grid Voltage | 4.5 | 7 | 7 volts |
| Zero-Signal Plate Cur. | 3.8 | 7.2 | 7.4 ma. |
| Zero-Signal Screen Cur. | 0.8 | 1.5 | 1.4 ma. |
| Plate Res. (Approx.) | 0.1 | 0.1 | 0.1 megohm |
| Transcond. | 1250 | 1550 | 1575 μmhos |
| Load Res. | 8000 | 5000 | 8000 ohms |
| Total Harmonic | | | |
| Distortion | 12 | 10 | 12 % |
| Max.-Sig. Power Output | 65 | 180 | 270 mw |

^Δ The center hole in sockets designed for this base provides for the possibility that this tube type may be manufactured with the exhaust-tube tip at the base end. For this reason, it is recommended that in equipment employing this tube type, no material be permitted to obstruct the socket hole.

Jan. 30, 1942

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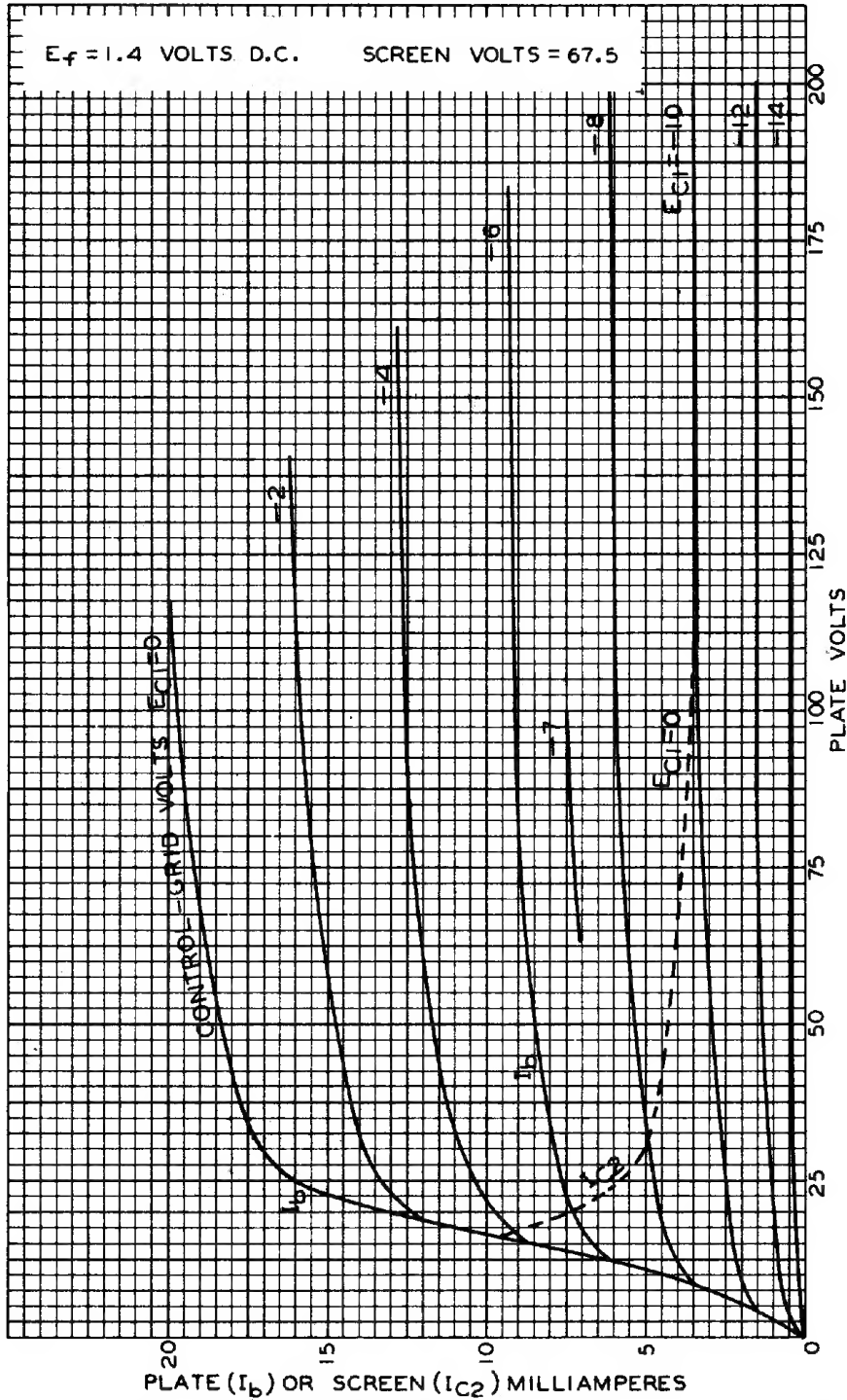
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AVERAGE PLATE CHARACTERISTICS



JAN. 26, 1942

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92C-6157RI

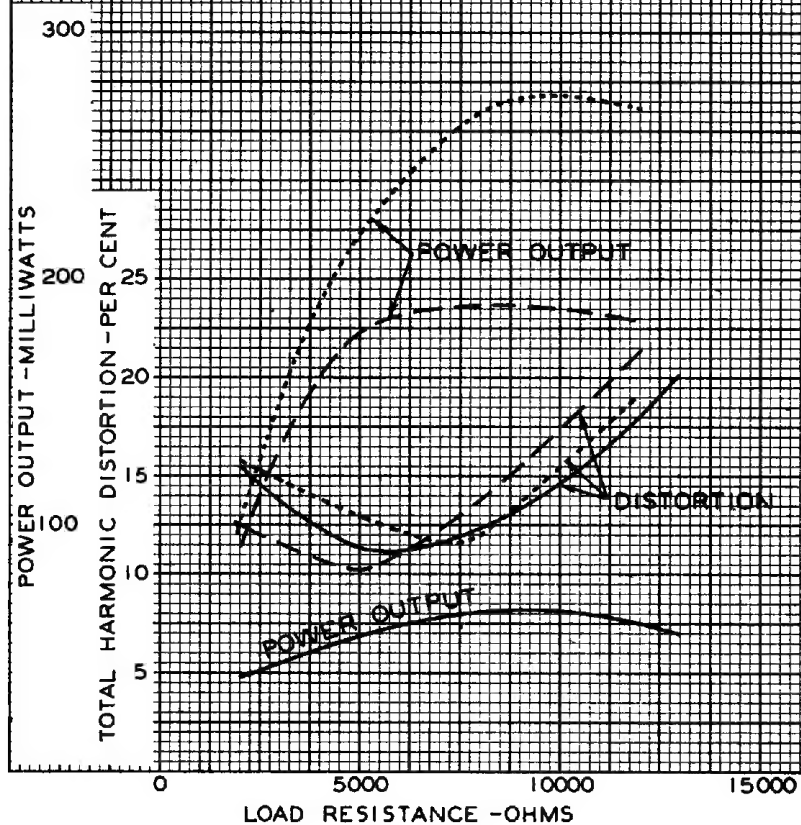


1S4

OPERATION CHARACTERISTICS

$E_f = 1.4$ VOLTS D.C.

| CURVE | PLATE VOLTS | SCREEN VOLTS | GRID VOLTS | SIGNAL VOLTS RMS |
|-------|-------------|--------------|------------|------------------|
| — | 45 | 45 | -4.5 | 3.2 |
| - - - | 67.5 | 67.5 | -7 | 4.95 |
| | 90 | 67.5 | -7 | 4.95 |



MAY 8, 1941

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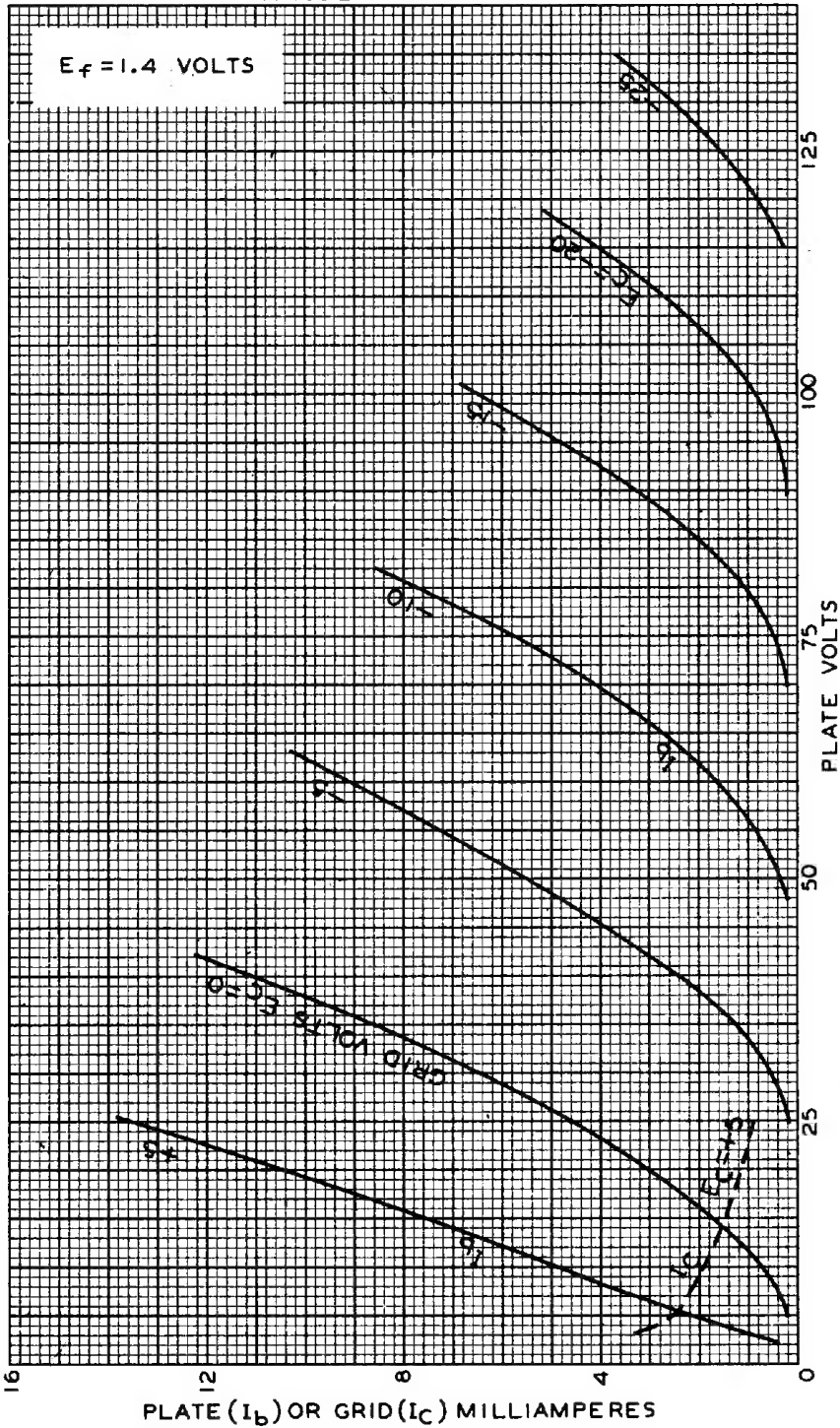
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AVERAGE PLATE CHARACTERISTICS TRIODE CONNECTION



DEC. 26, 1941

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92C-6348